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Book Review

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BOOK REVIEW: ‘ILM: SCIENCE, RELIGION AND ART IN ISLAM

Abdul Khaliq¹

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The present edited book was prepared from an international conference held at the University of Adelaide in July 2016 to explore the multifaceted conceptual concept in Islam, its institution and manifestations in the world of science, religion and art. Science is normally given directly to English as ‘knowledge’. This non-nuanced translation tends to hide the complexity and multifaceted nature of the arabic expression, which is both simple and complex at the same time. It is simple in meaning that is transparent and intuitively recognizable but is also complex in terms of many acquisitions, meanings, and associations that connect it with different aspects of cognition, such as different concepts, perceptions, feelings, and acquaintances. Acquisition, production and dissemination of knowledge, including teaching and learning, education and morality. Medieval Arabic lexicographers associate and thus point out that divine creation is essentially a movement of knowledge. And that the created world is a product of knowledge. Muslim mystics (*Sūfis*) usually refer to a sacred tradition in which God identifies the main reason for creating the world as the “desire to be known” and thus brings knowledge as the ultimate goal of religious persecution.

The book consists of 11 chapters divided into three parts. In the first chapter, “The Polarization Film: Science and Religion in Early Modern Islam” the polarization of science and religion that emerged in the 19th century is presented, to show the inconsistency between the sources of Islam before the 19th century and the classification of rational and transmitted sciences. A different trajectory in the polar Arab-Islamic context. It is necessary to study the union of religion with science, especially Islam.

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The second chapter of the first part, "Science and Art: Anatomical Illustration in Early Islamic Optics," by Perry Sparnon, examines the claims that dissection applications and anatomical knowledge (*'Ilm al-tashrīh*) informed the development of these paintings. The first design for the visual system and the accompanying chapters on the anatomy of the eye by *Ḥasan Ibn al-Haytham* and *al-Fārisī*. At the same time, the chapter claims that although Muslim opticians developed at a high level in the field of optics and contributed to early scientific activities, descriptive anatomical illustrations were never important in the *Kitāb al-Manāir* tradition and have only been occupied to this day.

A marginal place in the writings of opticians. The chapter questions whether practices of dissection and the knowledge of anatomy (*'Ilm al-tashrīh*) informed the development of these drawings, arguing that this is the case with the first design for the visual system and *Ibn al-Haytham's* and *al-Fārisī's* accompanying chapters on the anatomy of the eyes. At the same time, the chapter argues that although Muslim opticians achieved a high level of development in the field of optics and contributed to early scientific activities, descriptive anatomical illustrations were never significant carriers of knowledge in the *'ilm al-manāẓir* tradition and only ever occupied a marginal place in the opticians' writings.

Shaha Parpia presented the imperial *Mughal* hunt: A pursuit of knowledge which is third chapter which examines the sophisticated culture of hunting as an integral part of the scientific enterprise. It reveals aspects of the nature of 'scientific' knowledge from a *Mughal* perspective, and shows its utility and functions in that cultural context. It discusses the agency of the influential *akhlāq* (ethics) texts, which postulate that acquiring scientific knowledge is a religious obligation necessary to achieve perfection, and analyses how conceptions of ethics and morality impacted the promotion, perception, and practice of natural science.

The chapter explores the complex nature of scientific activities that were motivated by the *Mughal* hunt and their links to art, while assessing the interrelated concepts of religion, ethics, government, and science within hunting contexts in early modern *Mughal* history.

The fourth chapter; The House of Stars: Astronomy and the architecture of new science in early modern *Lucknow* (1831-49) by Katharine Bartsch and Peter Scriver, describes a state of the art facility that was distinguished equally by its architecture, not

least the hybrid architectural science of its design, and its 'high-tech' instrumentation dedicated to practical astronomy. Acknowledging parallel experimentation ongoing in the cosmopolitan culture of pre-colonial *Lucknow* with the modern styles of European architecture, the observatory building and institution is also interpreted as a site of cultural intersection and diplomatic exchange, where the higher ideal of pure science was, at least briefly, shared. While the decommissioned observatory building was ultimately re-purposed for other more worldly uses, the original joint venture in scientific discovery (for which the observatory had been built) was deemed to be a failure.

In the geopolitical context in which the Indo-Islamic world had been enveloped by European imperialism, the focus of astronomy and allied sciences of observation had shifted from the heavens to the more terrestrial purposes of territorial mapping and control. Virginia Hooker discussed 'By the Pen!' Spreading '*ilm*' in Indonesia through *Qur'anic* calligraphy; the world's largest Muslim majority nation, mainstream Indonesian Muslims are seeking to deepen their knowledge of Islam. This was initially stimulated by the transnational Islamic revival of the 1970s and strengthened by a concurrent policy of Indonesia's governing new order regime. That policy restricted public expressions of Islam to culture and education and forbade any political expression of the religion. In that milieu, activities to spread knowledge of the *Qur'an* ('*Ilm*') proliferated through *Qur'anic* study groups, *Qur'anic* recitation competitions, and exhibitions of Islam-inspired calligraphic art. Responding to this thirst for '*ilm*', *Didin Sirojuddin*, an internationally recognized Indonesian calligrapher, established the Institute of *Qur'anic* Calligraphy (LEMKA) in 1985.

The institute is committed to spreading '*Ilm*' through the study of the *Qur'an* and the practice of *Qur'anic* calligraphy or teaching Islam through the pen. Its statement of purpose emphasizes that when transmitting '*ilm*' through the process of calligraphy, the calligrapher receives guidance, ethics, aesthetics, and creative inspiration directly from the *Qur'an*. *Sirojuddin* teaches that once students have acquired '*ilm*', they must put it into practice in the form of good deeds (*A'amāl*) for the benefit of the individual and society. In 1998, LEMKA established the only *pesantren* in Indonesia devoted wholly to teaching *Qur'anic* calligraphy. The deliberate siting of the *pesantren* in the mountains of West Java inspires students to remember the *Qur'anic* teaching that Allah created the beauty of the universe as a source of pleasure and enjoyment. To ignore that beauty, *Sirojuddin* teaches,

is to ignore an aspect of Allah's greatness. To give expression to that beauty through calligraphic art bears witness to his greatness.

Sirojuddin believes that beautifully presented *Qur'anic* calligraphy makes the themes and meaning of 'ilm even more beautiful and appealing than they already are so that when Muslims see the calligraphy they will be motivated to apply 'ilm through good deeds in their everyday lives.

Syed Mehboob Bukhari presented *The Islamisation of 'ilm: ideals and realities in a globalized world* next chapter starts by outlining the principles underlying *Nasr's* and *Sardar's* Islamisation of science thesis and then consider the 19th century Islamisation discourse that informed their approach, before discussing the similarities and differences of the two discourses.

It concludes by showing how the Islamisation of 'ilm approach remains vulnerable to the commodifying hegemony of capitalism, the very force that the Islamisation process was attempting to escape in the first place. In between the mind and the heart: *Kātip Çelebi's* concept of 'ilm by *Selen Morkoç* examines *Kātip Çelebi's* last work, *Mizān al-ḥaqq* (The Balance of Truth), which captures his inner uncertainty about the significance of 'ilm. Its aims are, first, to show how *Çelebi's* conceptualization and definition of 'ilm oscillated between the heart and the mind, and second, the chapter shows how he understood and approached the relationship between reason and faith as complementary rather than opposing instruments of knowledge and elements of belief. In this intertwined conception, rational sciences and philosophy were considered as necessary to religious understanding.

Third, the chapter discusses *Çelebi's* rational approach to answering the 21 controversial issues generated by the *Kāḍīzāde* and *Sivāsī* antagonism that was hotly debated within *Ottoman* circles. These included the legality of music and dance in religious practices and worship, and the morality of social habits new to the times, such as smoking, opium, and coffee drinking. *Faris Hajamaideen* explored 'Ilm and the human body: *Al-Suhrawardī's* concept of the illuminated temple as the cosmological significance of the concepts of *haykal* and *ṣīṣiyya* to show how the architecture of the human body plays a key cognitive illuminative role in the process of transformation from a fortress of darkness into a temple of light. In this process, the body and the mind work as a unified 'structure' or 'temple', wherein 'form' and 'space' work together integrally as

‘architecture’ to enable the infusion of light to dematerialize the body and erase its opacity.

‘Ilm and the ‘architecture of happiness’: The Ottoman imperial palace at Edirne/Adrianople, 1451-1877 by Susan Scollay. This chapter considers the imperial palace built by the *Ottoman sultan Murat II* (r. 1421-51) at Edirne in Thrace and its aesthetic context. The city had been the *Ottoman* seat of government for almost a century but it was not until the final years of *Murat II*’s reign that the dynasty commissioned a palace of any significance. It also proposes that palaces of the imagination described in illustrated manuscripts, such as the Persian *Shāhnāma* (Book of Kings) and other persianate poetic tales, were likely models for the Edirne Palace. It concludes that poetic ideals of beauty connected to *‘ilm* understood here as knowledge of literature and cultural models from elsewhere in the Islamic world, played a large part in the artistic evolution of the house of *‘Uthman*. James Bennett explored *‘Ilm* or fashion? The question of identity in the batik designs of Java; The long history of *ceplokan*, which is among the most popular of the design categories, with origins dating back to the pre-Islamic early classic period (c. 700-900 CE) in Java.

It examines whether the geometric motifs developed as a conscious response to *‘ilm*, or rather whether they represent a process of cultural negotiation by which older *Hindu-Buddhist* textile designs were reinterpreted in the context of the new dress fashions that emerged following the ascendancy of Islam in Java in the 16th century. Curating *‘ilm*: Chapter or bridge? answered by Sam Bowker identifies the implications of these forms of knowledge when situating ‘Islamic’ art in the context of exhibitions, and what *‘ilm* may offer curators and educators as a conceptual framework. So, this edited book comprehensively explored science and art in religion Islam.